

BellSouth concurs that disaggregation to service specific level as proposed by LCUG is overly burdensome and unlikely to provide additional useful information.

Notice at ¶ 50.

2 Order Completion Measurements

Under this heading, the Commission proposes to measure both “Average Completion Interval” and “Percentage of Due Dates Missed.” *Notice* at ¶ 52. These measures are more than adequate to detect discrimination in processing CLEC orders. The Commission proposes a formula for calculating its order completion that includes the date and time of order submission and the date and time the completion notification is sent. BellSouth has always tracked this data on a date only basis. Thus, BellSouth supplies a committed due date and considers the commitment met if the order is completed on that date. Forcing additional commitment to a specific time would require expensive reworking of the process. BellSouth’s current approach treats CLECs as it treats itself, and provides all the necessary information to assess service delivery.

3. Average Time for Coordinated Customer Conversions

The Commission proposes to measure the average time it takes an ILEC to disconnect a loop from one of its end user customers and cross connect it to a CLEC. *Notice* at ¶ 57. This measure is extremely labor intensive and therefore expensive measurement. BellSouth does not measure this for itself. There is currently no mechanized way to gather and provide the required information. BellSouth is currently attempting to develop an efficient and effective way to measure this interval to meet general interest in having such a measure. BellSouth has done a study of loop cutover

intervals. That study, which is included as Attachment 2, demonstrates that cutovers were provided in accordance with the 1996 Act's requirements. If the Commission includes this type of measure in its "model" rules, it must provide ILECs flexibility to develop efficient and effective ways to provide the information sought.

4. Order Status Measurements

The Commission proposes five order status measurements. *Notice* at ¶ 59. No BellSouth retail analogue for these measurements exists. Although the Commission proposes mandating that ILECs institute measurement of these functions internally, it offers no real basis for imposing these additional costs on ILECs. In the absence of any concrete evidence that discrimination has occurred, or is likely to occur in these areas, the Commission should not add to ILEC measurement costs by requiring more internal measures.²²

BellSouth has discussed above the fact that the proposed "Average Jeopardy Notice Interval" and "Percentage of Orders Given Jeopardy Notices" measures are repetitive and more likely to harm competition than help it. Further, tracking the time in addition to the date, as proposed by the Commission is unnecessary. Any measure in this area should use date only.

The Commission's "Average Completion Notice Interval" measure could impose substantial unnecessary costs and slow service delivery. If the proposed measure is limited to measuring the interval on electronically placed orders, the measurement is

²² The Georgia PSC's recent performance measurement order did not require tracking three of these proposed measures - "Average Jeopardy Notice Interval," "Percentage of Orders Given Jeopardy Notices" and "Average Completion Notice Interval." The Georgia Commission found that there was no retail analogue for these notices. *Georgia Performance Measures Order*.

feasible. However, BellSouth continues to receive a substantial number of orders from CLECs that have chosen to use non-electronic means or processes. BellSouth has no mechanized means to measure completion intervals on such orders. There is no reason to impose excessive measurement costs on BellSouth due to the CLEC's choice of ordering vehicle.²³

5. Average Interval for Held Orders

BellSouth believes that the proposed approach to measuring held order intervals is workable. *Notice* at ¶ 65. BellSouth currently tracks this measure as described by the FCC, except that BellSouth also excludes orders held for CLEC and BST end user reasons. This exclusion should be added to the Commission's exclusions, or explicitly permitted.

6. Installation Troubles Measurements

The Commission proposes a "Percentage of Troubles in 30 Days for New Orders" measure. *Notice* at ¶ 68. As discussed above in section III.A., this measurement should measure troubles within 30 days of installation, not order date. As also set out in section III.A. above, BellSouth strongly agrees with the Commission's view that this measurement renders a service order accuracy measure superfluous. Reporting should be broken out according to BellSouth's comments above on Geographic Level Disaggregation. BellSouth and CLEC end user caused problems should be excluded from the measure. At this stage, there is no reason or evidence to suggest that

²³ BellSouth also believes that a service order completed measure could be substituted: (Service Orders Completed in "X" Days)/(Total Service Orders Completed in Reporting Period) X 100.

disaggregating this measure beyond the order level would provide useful information. Per order reporting will yield sufficient information to detect discrimination without the additional costs and systems work necessary to disaggregate orders and track them on a per line or per element basis.

7. Order Quality Measurements

The Commission proposes three measurements of order quality. *Notice* at ¶¶ 71-76. These measures are workable, but as set out in section III.C. the proposed “Average Submissions Per Order” measure should be dropped. That measure is repetitive and unlikely to provide meaningful data on ILEC performance.

BellSouth agrees with the Commission’s proposed level of disaggregation, except that, as discussed above, no reporting on UNE combinations is appropriate. In addition, the denominator of the Commission’s formula should clarify that only orders submitted electronically are included.²⁴

8. 911 Database Update and Accuracy

Although the Commission’s proposed measures here are appropriate, they are unnecessary. *Notice* at ¶ 77. States have existing oversight responsibilities for 911 issues and monitor 911 performance. Layering federal reporting requirements over existing state requirements would be wasteful if not counterproductive. As a matter of course, BellSouth and its systems make no distinctions between CLEC and BellSouth

²⁴ In addition, the Commission should substitute the words “service request” for “order” in its proposed “Percentage of Rejected Orders” and “Average Submissions per Order” measures to reflect the fact that these measures deal with rejected requests for service. Valid orders are not rejected.

911 updates, so any such reporting requirements are unlikely to provide information worth the cost of measuring.

Any measures adopted by the Commission should allow the exclusion of facilities-based CLECs (including those using BellSouth UNEs) from ILEC update and accuracy measures. These CLECs in BellSouth's region order and provision 911/E911 services directly with the same independent third-party vendor for these services that BellSouth uses. These facility-based CLECs can and should report separately on their own experience.²⁵

C. Repair and Maintenance Measurements

The Commission proposes four separate measures of repair and maintenance services. *Notice* at ¶ 81. These four measures are more than sufficient to detect discrimination in repair and maintenance.²⁶ The Commission should not impose an inflexible approach to disaggregation of reporting data. BellSouth currently disaggregates its repair and maintenance measures as follows: Resale Residence – Dispatch and Non-Dispatch; Resale Business – Dispatch and Non-Dispatch; Resale Design; UNE Design, UNE Non-Design – Dispatch and Non-Dispatch; and UNE Loops with number portability. Local interconnection trunks should be measured in the aggregate.

²⁵ Forcing BellSouth to report on the activity and volume for these CLECs may also require BellSouth to acquire confidential CLEC data that reveals activity and volume.

²⁶ BellSouth is also measuring “Percent Out of Service Greater Than 30 Days”.

LCUG's proposal to further disaggregate repair and maintenance into ten cause and disposition categories should be rejected. *Notice* at ¶ 86. This information is not relevant to whether BellSouth is repairing and maintaining CLEC services and elements in a nondiscriminatory fashion. The Commission's four proposed measures and disaggregated reports will reveal any discrimination. At any rate, disposition and cause information is only available from BellSouth systems for POTS-type services. Individual CLECs also have access to the raw data underlying BellSouth's repair and maintenance measurements. If a CLEC desires to do a root cause analysis of its reported repair experience, it may use this data to do so. The Commission should not impose this obligation on ILECs.

Finally, the Commission seeks comment on whether its proposed "Percentage of Customer Troubles Resolved Within Estimated Time" measure should be applied to interconnection trunks. *Notice* at ¶ 85. BellSouth does not assign appointment dates to customer trouble reports concerning interconnection trunks. These troubles are handled on a priority first-in first-out basis. An appropriate measure such as Average Time to Restore should be substituted.

D. Billing

The FCC's two proposed billing measures are more than adequate to detect possible discrimination. *Notice* at ¶ 89. Again, the Commission's proposed course of micromanaging the measurement and reporting processes threatens to increase the costs of these measurements without corresponding benefit, and to penalize innovation to develop more efficient and effective measures and reports.

In order to show nondiscriminatory treatment, measures reported at a date level rather than the date and time level proposed by the Commission are appropriate. The industry standard for measuring timeliness is based on date only, e.g. number of days delayed. In addition, billing activities (e.g. collection of usage and creation of invoices) occur in a daily batch process, once per business day. Finally, because transmission processes affecting timing are at the CLEC's option, the exact time of transmission depends on how a CLEC has exercised its option. Forcing a time measure on the industry would raise costs substantially and be of little value in detecting discrimination.

In each of the algorithms proposed by the Commission to measure billing activities, the word "transmitted" should be replaced by the word "distributed". In today's environment, very few bills are "transmitted." Most bills are "distributed" by mail on paper, CD ROM, or magnetic tape.

1. Average Time to Provide Usage Records

The Commission's proposed algorithm pre-supposes that the process for measuring usage is different for BellSouth than that for CLECs. This is a fundamental misunderstanding. BellSouth's process is a common process that does not differentiate between the recording of BellSouth and CLEC Usage data. Only when BellSouth has progressed well down the recording and distribution cycle are we able to identify CLEC versus BellSouth end-user data. Therefore, there is no separation of data at the "Date and Time Usage Records Recorded" or at the point the record is reformatted to the EMR format as presupposed by the Commission's algorithm. BellSouth proposes that there be a common measure of time to provide usage records. This measure should account for the mean time to deliver usage data by measuring from the usage record "create date" until delivery to the CLEC. The corresponding

BellSouth measurement would be from usage record “create date” until recognition of BellSouth ownership and delivery to retail BellSouth billing processes.

The reporting should separate out by BellSouth-Recorded data versus “Other Company”- Recorded data. Data recorded by other companies is much slower to receive and therefore often delayed in its distribution. Including this in a measure of BellSouth performance may create the appearance that BellSouth is not performing adequately. The BellSouth-Recorded data should then be broken out by End-User Usage data and Access Usage data only. The Commission’s proposal to add a separate category for “Alternatively Billed Usage Records” should be rejected because these records are part of the same data stream as the End-User Usage and thus are included and accounted for within the End User Usage measurement category.

2. Average Time to Deliver Invoices

Like the Commission’s measure for Average Time to Provide Usage Records, this proposed measure pre-supposes a separation between the BellSouth and CLEC invoice delivery processes that does not exist. The currently stated measures include significant time and activity in the CLEC measurement that is not embodied in the BellSouth measurement and will artificially and erroneously create the appearance of routine discriminatory practices with respect to CLEC invoices. To reflect realities, Invoice Timeliness should be measured on the basis of the date when distribution occurs for bills of all types, both BellSouth and CLEC.

E. Interconnection Measures

The Commission proposes two sets of interconnection measures – trunk blockage measurements and collocation measurements.

1. Trunk Blockage Measurements

BellSouth is currently measuring and reporting on trunk blockage on both local interconnection trunk groups and common trunk groups as proposed by the Commission. *Notice* at ¶ 97. BellSouth is also already measuring and reporting on repeat trunk group blockage. BellSouth's measures are based on the percentage of trunk groups exceeding a blocking threshold of 3%.²⁷

BellSouth currently utilizes the common trunk data report established in BellCore Special Report SR STS-00317. *Notice* at ¶ 100. This data report and all its measurements are applicable to CLECs. BellSouth is currently providing trunk blockage results on all final trunk groups, both BellSouth and CLEC administered, between Point of Termination and BellSouth tandems or end offices.

Any proposal that would force ILECs to measure call completion rates should be rejected. The only accurate way to produce call completion rates is to utilize a Signaling System 7 feature called Link Monitoring System ("LMS"). BellSouth has not implemented this system. Initial cost estimates to implement LMS across BellSouth run to approximately 30.5 million dollars.²⁸ BellSouth has concluded that the benefits of installing this system in its network do not justify the costs. The proposed truck blockage measures provide key information about trunk blockage. There is no justification for

²⁷ BellSouth uses a blocking threshold of 2% for final trunk groups between BellSouth access tandems and Independent company end offices.

²⁸ The 30.5 million dollar cost estimate includes the costs of memory and computing capability upgrades in approximately 1,000 "host" offices, building "host" office translation tables for each CLEC and installing necessary links.

imposing the very significant costs for a call completion report in lieu of or in addition to a trunk blockage report.

2. Collocation Measures

BellSouth concurs that the three collocation measures proposed by the Commission are appropriate. *Notice* at 102. Any measurement formula must carefully exclude from its calculation of time to implement a collocation request all delays due to factors outside the control of the ILEC. For example, physical collocation requires building permits from local authorities. BellSouth cannot control the timing of local government permit evaluation. Given the time periods for implementing collocation arrangements, tracking time and date, as the Commission proposes, rather than just date is unnecessary.

VII. REPORTING PROCEDURES

The *Notice* discusses various proposed mandates regarding reporting procedures and potential audit requirements in paragraphs 104 through 115. BellSouth concurs with the obvious proposition that performance measure reports should be available to CLECs ordering from BellSouth and to state commissions. However, there is no need for the FCC to micromanage the performance measurement business to the levels proposed in the *Notice*. BellSouth has agreements and is negotiating with various CLECs to provide performance measurements results. CLECs have negotiated audit rights through private negotiations. State commissions that will use performance data to assess whether BellSouth has met its nondiscrimination obligations have ready access to this data without Commission intervention.

BellSouth posts aggregate BellSouth and CLEC performance reports on its web site.²⁹ Individual CLEC reports and the underlying data for these reports are posted on the Internet site after the CLEC requests access.³⁰ Individual reports and data are password protected and should not be available to other CLECs.³¹ There is no need for the Commission to establish any sort of “clearinghouse,” and add an expensive layer of bureaucracy to this process. *Notice* at ¶ 109.

BellSouth already reports data on a monthly basis, as the Commission proposes to require. *Notice* at 112. The Commission should leave reporting frequency and preparation times to ILECs, CLECs and state commissions.

BellSouth already provides CLECs with audit rights. There is no need for forcing a regular schedule of audits. CLECs may audit on an ad hoc basis, with 30 days advance notice. The auditing party, as is common, must be prepared to reimburse reasonable ILEC costs.³²

VIII. EVALUATION OF PERFORMANCE MEASUREMENTS AND REPORTS

The Commission seeks comment on adopting a uniform approach to evaluating ILEC performance data it. *Notice* at ¶ 117. The Commission notes that “few parties raised the issue in the initial round of comments.” *Id.* The Commission appears

²⁹ This information is available through BellSouth’s interconnection web page. <http://www.bellsouth.com/interconnection/>.

³⁰ The CLEC must also have signed an interconnection agreement. There must also be sufficient activity to produce meaningful data.

³¹ Individual CLEC reports could be available to state commissions under existing proprietary rules.

³² BellSouth will retain data for three years as required by the Georgia Public Service Commission. *Georgia Performance Measures Order* at 30.

interested in endorsing a particular statistical approach to “testing” as set out in Appendix B to the *Notice*.

BellSouth’s study of this issue to-date has emphasized the difficulty of adopting any statistical approach to analyzing performance data. The number of variables and variances that are involved make singling out a particular test to use across such a wide range of factors difficult and potentially misleading. BellSouth continues to study this issue. The Commission must avoid endorsing any simplistic test that is likely to produce misleading results. The Commission must also be wary of endorsing any notion that a statistical test of differences on processes that involve many variables may equate to “discrimination.”

IX. PERFORMANCE AND TECHNICAL STANDARDS

BellSouth agrees with the Commission’s conclusions that there is no current need to propose action to set national performance standards for access to ILEC services or to set technical standards for OSS systems. *Notice* at ¶¶ 125, 127. On a practical level, as the Commission observes, the necessary historical data is lacking, making development of performance standards premature. In addition, the Commission has no legal authority to set performance standards for the delivery of local services. States have traditionally set such standards, and the 1996 Act only reinforces the exclusivity of the states’ role in this area. The Commission has no statutory authority to even undertake such an ill-advised attempt to force regulatory standards on the market.

Prescribing OSS technical standards would be similarly unwise and outside the Commission’s authority. Local carriers are working through industry fora to set OSS standards as appropriate. BellSouth is committed to implementing the recommendations

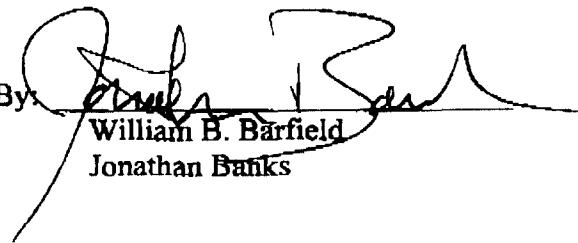
of these industry bodies.³³ The record is barren of any evidence suggesting Commission intervention is necessary, even if it were authorized. The Commission should allow industry experts and the local carriers involved to develop and implement industry standards.

X. ENFORCEMENT MECHANISMS

BellSouth concurs with the Commission's conclusion that it would be premature to adopt enforcement mechanisms for violations of OSS requirements. *Notice* at 130. Again, this is a matter to be negotiated by local carriers under state commission supervision.

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Date: June 1, 1998

³³ Implementation intervals will vary depending on the complexity of changes required. The Commission's proposal to set a one size fits all implementation deadline does not reflect the realities of the market. The Commission should leave implementation to carriers and state commissions.

FCC PROPOSED RULE MAKING ON PERFORMANCE MEASUREMENTS

MATRIX OF PROPOSED DATA ELEMENTS

Attachment 1

MEASUREMENT	GEOGRAPHIC LEVEL for REPORTING							
	# CLEC CATEGORIES	# ILEC CATEGORIES	TOTAL CATEGORIES	REGION	9 STATES	38 LATAs	64 MSAs	121 COUNTIES w/i MSAs
PRE-ORDERING								
Average Response Time	9	9	18	18	N/A	N/A	N/A	N/A
ORDERING/PROVISIONING								
Average Completion Interval	18	9	27	27	243	1026	1728	3267
Percentage of Due Dates Missed	18	9	27	27	243	1026	1728	3267
Ave. Coord. Cust. Conversion Interval	2		2	2	18	1026	128	3267
Ave. Reject Notice Interval	18	9	27	27	243	1026	1728	3267
Average FOC Notice Interval	18	9	27	27	243	1026	1728	3267
Average Jeopardy Notice Interval	18	9	27	27	243	1026	1728	3267
% of Orders given Jeopardy Notice	18	9	27	27	243	1026	1728	3267
Ave. Completion Notice Interval	18	9	27	27	243	1026	1728	3267
Ave. Interval for Held Orders	18	9	27	27	243	1026	1728	3267
% of Troubles w/i 30 days (new ord.)	18	9	27	27	243	1026	1728	3267
% of Order Flow Through	4	2	6	6	54	228	384	726
% of Rejected Orders	4	2	6	6	54	228	384	726
Ave. Submissions per Order	4	2	6	6	54	228	384	726
% of 911/E911 Database Updates	1	1	2	2	18	76	128	242
% of Missed Due Dates for 911/E911	1	1	2	2	18	76	128	242
MAINTENANCE & REPAIR								
Ave. Time to Restore	18	9	27	27	243	1026	1728	3267
Frequency of Troubles w/i 30 days	18	9	27	27	243	1026	1728	3267
Frequency of Repeat Troubles	18	9	27	27	243	1026	1728	3267
% of Cust. Trbls. Resolved w/i est.	18	9	27	27	243	1026	1728	3267
BILLING								
Ave. Time to Provide Usage Records	3	3	6	6	54	228	384	726
Ave. Time to Deliver Invoices	2		2	2	18	76	128	242
GENERAL								
% of Time OSS Interface Available	1	1	2	2	18	76	128	242
Ave. Time to Answer Calls (CLEC ctr.)	1		1	1	9	38	64	121
Ave. Time To Answer Calls (OS/DA)	1	1	2	2	18	76	128	242
INTERCONNECTION								
% Blockage on Interconn. Trunks	2	1	3	3	27	114	192	363
% Blockage on Common Trunks	1		1	1	9	38	64	121
Ave. Time to Respond to Colloc. Request	2		2	2	18	76	128	242
Ave. Time to Provide Colloc. Arrangement	2		2	2	18	76	128	242
AGGREGATE CLEC & BST TOTAL								
INDIVIDUAL CLEC TOTAL (currently approx. 100 CLECs)				414	3864	15998	25344	50941
				41400	356400	1599800	2534400	5094100

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Attachment 2

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPL.
LOOPS	ORDER	START TIME	COMPL. TIME	START TIME	COMPL. TIME	MINS	LOOP	DATE	DATE
1	d,c,n	1000	1015	0932	0940	8	8	1/5/1998	1/5/1998
2	d,c,n	1100	1130	1119	1124	5	2.50	1/5/1998	1/5/1998
1	d,c,n	1030	1045	1012	1516	304	304.00	1/5/1998	1/5/1998
1	d,c,n	0900	0915	0912	0923	11	11.00	1/5/1998	1/5/1998
1	d,c,n	1030	1045	1010	1502	292	292.00	1/5/1998	1/5/1998
1	d,c,n	1030	1045	1010	1135	85	85.00	1/5/1998	1/5/1998
14	d,c,n	1200	1530	1436	1525	49	3.50	1/5/1998	1/5/1998
1	d,c,n	1000	1015	1000	1011	11	11.00	1/6/1998	1/6/1998
1	d,c,n	0930	0945	1018	1023	5	5.00	1/6/1998	1/6/1998
1	d,c,n	1100	1115	1102	1109	7	7.00	1/6/1998	1/6/1998
8	d,c,n	1300	1500	1339	1413	34	4.25	1/6/1998	1/6/1998
1	d,c,n	0800	0815	0800	0801	1	1.00	1/6/1998	1/6/1998
1	d,c,n	0830	0845	0846	0853	7	7.00	1/6/1998	1/6/1998
4	d,c,n	0900	1000	0857	0906	9	2.25	1/7/1998	1/7/1998
6	c	1600	1730	1559	1635	76	12.67	1/8/1998	1/8/1998
3	d,c,n	0700	0745	0901	0909	8	2.67	1/8/1998	1/8/1998
10	d,c,n	1130	1400	1428	1436	8	0.80	1/8/1998	1/8/1998
3	d,c,n	0900	0945	1053	1056	3	1.00	1/8/1998	1/8/1998
6	d,c,n	700	na	727	831	64	10.67	1/5/1998	1/5/1998
1	d,c,n	700	na	738	750	12	12.00	1/5/1998	1/5/1998
4	d,c,n	1600	na	1558	1606	8	2.00	1/6/1998	1/6/1998
5	d,c,n	?	na	0805	0812	7	1.40	1/7/1998	1/7/1998
4	d,c,n	700	na	712	720	8	2.00	1/7/1998	1/7/1998
1	d,c,n	0800	na	0805	0812	7	7.00	1/7/1998	1/7/1998
4	d,c,n	1600	na	1556	1607	11	2.75	1/8/1998	1/8/1998
4	d,c,n	0700	na	0723	0837	74	18.50	1/8/1998	1/8/1998
3	d,c,n	800	na	836	858	22	7.33	1/8/1998	1/8/1998
6	d,c,n	1700	na	1755	2015	140	23.33	1/5/1998	1/8/1998
10	c	na	na	1903	1913	10	1.00	1/20/1998	1/5/1998
10	c	na	na	1903	1913	10	1.00	1/20/1998	1/5/1998
18	d	1800	300	1809	1822	13	0.72	1/15/1998	1/6/1998
18	c	1800	0300	1809	1822	13	0.72	1/15/1998	1/6/1998
25	d,c,n	1700	0530	1711	1913	122	4.88	1/7/1998	1/7/1998
5	d,c,n	1700	1815	1711	1913	122	24.40	1/7/1998	1/7/1998
8	c	na	na	1836	1859	23	2.88	1/15/1998	1/7/1998
4	c	na	na	1901	1927	26	6.50	1/16/1998	1/7/1998
3	c	na	na	1846	1850	4	1.33	1/19/1998	1/7/1998
3	c	na	na	1950	1951	1	0.33	1/19/1998	1/7/1998
14	c	1800	100	1814	1823	9	0.64	1/15/1998	1/8/1998
14	c	1800	0100	1814	1823	9	0.64	1/15/1998	1/8/1998
2	c	na	na	1918	1922	4	2.00	1/20/1998	1/8/1998
5	c	na	na	1908	1916	8	1.60	1/16/1998	1/8/1998
7	d,c,n	0800	1000	1125	1138	13	1.86	1/5/1998	1/5/1998
2	d,c,n	700	900	719	722	3	1.50	1/5/1998	1/5/1998
6	d,c,n	1600	1800	1615	1657	42	7.00	1/5/1998	1/5/1998
4	d,c,n	1730	1930	1733	1737	4	1.00	1/5/1998	1/5/1998
9	d,c,n	0700	0900	0709	0732	23	2.56	1/5/1998	1/5/1998

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QUANTITY LOOPS	TYPE ORDER	SCHEDULED START TIME	SCHEDULED COMPL. TIME	ACTUAL START TIME	ACTUAL COMPL. TIME	TOTAL MINS	MINS PER LOOP	DUET DATE	COMPL. DATE
3	d,c,n	700	900	709	717	8	2.67	1/7/1998	1/5/1998
5	d,c,n	1700	1900	1703	1719	16	3.20	1/5/1998	1/5/1998
4	d,c,n	1200	1400	1200	1207	7	1.75	1/6/1998	1/6/1998
6	d,c,n	1730	1930	1733	1753	20	3.33	1/6/1998	1/6/1998
3	d,c,n	1700	1900	1711	1723	12	4.00	1/6/1998	1/6/1998
3	d,c,n	1800	2000	1804	1814	10	3.33	1/6/1998	1/6/1998
1	d,c	1500	1700	1451	1501	50	50.00	1/7/1998	1/7/1998
4	d,c,n	1530	1730	1538	1548	10	2.50	1/7/1998	1/7/1998
1	d,c	2100	2300	2159	2204	5	5.00	1/7/1998	1/7/1998
5	d,c,n	1630	1830	1643	1705	22	4.40	1/7/1998	1/7/1998
9	d,c,n	1700	1900	1705	1725	20	2.22	1/7/1998	1/7/1998
8	d,c,n	2100	2300	2127	2157	30	3.75	1/7/1998	1/7/1998
1	d,c	2100	2300	2159	2209	10	10.00	1/7/1998	1/7/1998
2	d,c,n	1500	1700	1452	1455	3	1.50	1/7/1998	1/7/1998
1	d,c	1300	1500	1302	1308	6	6.00	1/8/1998	1/8/1998
4	d,c,n	1800	2000	1702	1717	15	3.75	1/8/1998	1/8/1998
3	d,c,n	0800	1000	0905	0946	41	13.67	1/7/1998	1/8/1998
6	d,c,n	0800	1000	0800	0809	9	1.50	1/8/1998	1/8/1998
1	d,c,n	1700	1900	1703	1716	13	13.00	1/8/1998	1/8/1998
2	d,c,n	0800	1000	0815	0836	21	10.50	1/8/1998	1/8/1998
3	d,c,n	1000	1200	1014	1023	9	3.00	1/8/1998	1/8/1998
1	c	1700	1900	1826	1922	56	56.00	1/8/1998	1/8/1998
3	d,c,n	1600	1800	1607	1621	14	4.67	1/8/1998	1/8/1998
13	c	1700	1900	1734	1846	72	5.54	1/8/1998	1/8/1998
10	d,c,n	700	900	726	815	49	4.90	1/8/1998	1/8/1998
4	d,c,n	1000	1100	1025	1044	19	4.75	1/13/1998	1/13/1998
1	c,n	0800	0815	0806	0809	3	3.00	1/14/1998	1/14/1998
7	d,c,n	1200	1345	1205	1336	91	13.00	1/15/1998	1/15/1998
5	d,c,n	0900	1015	0904	0906	2	0.40	1/15/1998	1/15/1998
5	d,c,n	1300	1415	1407	1719	192	38.40	1/19/1998	1/19/1998
1	d,c,n	0900	0915	0857	0858	1	1.00	1/19/1998	1/19/1998
1	d,c,n	0900	0915	0904	0905	1	1.00	1/19/1998	1/19/1998
3	d,c,n	1600	na	1548	1550	2	0.67	1/12/1998	1/12/1998
4	d,c,n	1700	na	1658	1701	3	0.75	1/12/1998	1/12/1998
4	d,c,n	1700	na	1712	1715	3	0.75	1/13/1998	1/13/1998
6	d,c,n	1600	na	1602	1605	3	0.50	1/13/1998	1/13/1998
2	d,c,n	1600	na	1542	1547	5	2.50	1/14/1998	1/14/1998
2	d,c,n	1700	na	1635	1643	8	4.00	1/14/1998	1/14/1998
1	c,c,n	0800	na	1024	1142	78	78.00	12/16/1997	1/14/1998
4	d,c,n	1700	na	1625	1637	12	3.00	1/16/1998	1/16/1998
2	c,c,n	0900	na	0903	1139	156	78.00	1/16/1998	1/16/1998
2	d,c,n	1600	na	1559	1601	2	1.00	1/19/1998	1/19/1998
4	d,c,n	0800	na	0808	0814	6	1.50	1/19/1998	1/19/1998
1	d,c,n	0900	na	1016	1019	3	3.00	1/19/1998	1/19/1998
1	d,c,n	0900	na	1019	1023	4	4.00	1/19/1998	1/19/1998
2	d,c,n	0900	na	1010	1015	5	2.50	1/19/1998	1/19/1998
2	d,c,n	1000	1200	1003	1047	44	22.00	1/12/1998	1/12/1998

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QUANTITY LOOPS	TYPE ORDER	SCHEDULED START TIME	SCHEDULED COMPL. TIME	ACTUAL START TIME	ACTUAL COMPL. TIME	TOTAL MINS	MINS/PER LOOP	DUEDATE	COMPL. DATE
1	d,c,n	1700	1900	1730	1745	15	15.00	1/12/1998	1/12/1998
4	d,c,n	1700	1900	1730	1822	52	13.00	1/12/1998	1/12/1998
3	d,c,n	0900	1100	0845	0944	59	19.67	1/12/1998	1/12/1998
1	d,c,n	1300	1500	1309	1310	1	1.00	1/12/1998	1/12/1998
1	d,c,n	1700	1900	1730	1735	5	5.00	1/12/1998	1/12/1998
1	d,c,n	1700	1900	1730	1735	5	5.00	1/12/1998	1/12/1998
5	d,c,n	1300	1500	1338	1344	6	1.20	1/12/1998	1/12/1998
1	d,c,n	0800	1000	0830	0835	5	5.00	1/13/1998	1/13/1998
5	d,c,n	1000	1200	1014	1028	14	2.80	1/13/1998	1/13/1998
1	d,c,n	0800	1000	0810	0817	7	7.00	1/13/1998	1/13/1998
3	d,c,n	0900	1100	1015	1020	5	1.67	1/14/1998	1/14/1998
1	d,c,n	0900	1100	0910	0933	23	23.00	1/14/1998	1/14/1998
10	c,c,n	1700	1900	1721	1948	147	14.70	1/14/1998	1/14/1998
5	d,c,n	?	?	1703	1711	8	1.60	1/14/1998	1/14/1998
6	d,c,n	0715	0915	0718	0734	16	2.67	1/14/1998	1/14/1998
1	d,c,n	0900	1100	0944	0958	14	14.00	1/14/1998	1/14/1998
4	d,c,n	1700	1900	1721	1733	12	3.00	1/14/1998	1/14/1998
3	d,c,n	1600	1800	1612	1653	41	13.67	1/14/1998	1/14/1998
6	d,c,n	0900	1100	0910	0940	30	5.00	1/14/1998	1/14/1998
1	d,c,n	0700	0900	0703	0706	3	3.00	1/15/1998	1/15/1998
3	d,c,n	0700	0900	0705	0836	91	30.33	1/15/1998	1/15/1998
1	d,c,n	0700	0900	0705	0732	27	27.00	1/15/1998	1/15/1998
1	d,c,n	0700	0900	0703	0731	28	28.00	1/15/1998	1/15/1998
1	d,c,n	1100	1300	1107	1117	10	10.00	1/15/1998	1/15/1998
1	d,c,n	1400	1600	1417	1440	23	23.00	1/15/1998	1/15/1998
3	d,c,n	1100	1300	1107	1122	15	5.00	1/15/1998	1/15/1998
1	d,c,n	0800	1000	0805	0807	2	2.00	1/15/1998	1/15/1998
1	d,c,n	0700	0900	0703	0706	3	3.00	1/15/1998	1/15/1998
3	d,c,n	1400	1600	1411	1441	30	10.00	1/15/1998	1/15/1998
1	d,c,n	1200	1400	1218	1226	8	8.00	1/15/1998	1/15/1998
8	d,c,n	1330	1530	1329	1410	41	5.13	1/16/1998	1/16/1998
2	d,c,n	0800	1000	0811	0813	2	1.00	1/16/1998	1/16/1998
8	d,c,n	1700	1900	1705	1752	47	5.88	1/16/1998	1/16/1998
4	d,c,n	0700	0900	0708	0724	16	4.00	1/16/1998	1/16/1998
1	d,c,n	?	?	0712	0717	5	5.00	1/16/1998	1/16/1998
1	d,c,n	1700	1900	1706	1726	20	20.00	1/16/1998	1/16/1998
8	d,c,n	1500	1700	1501	1514	13	1.63	1/16/1998	1/16/1998
2	d,c,n	0700	0900	0730	0735	5	2.50	1/16/1998	1/16/1998
6	d,c,n	1500	1700	1506	1514	8	1.33	1/16/1998	1/16/1998
4	d,c,n	1600	1800	1601	1621	20	5.00	1/16/1998	1/16/1998
1	d,c,n	1330	1530	1329	1406	37	37.00	1/16/1998	1/16/1998
4	d,c,n	0800	1000	0804	0810	6	1.50	1/16/1998	1/16/1998
3	d,c,n	0800	1000	0811	0830	19	6.33	1/16/1998	1/16/1998
1	d,c,n	0700	0900	0710	0713	3	3.00	1/19/1998	1/19/1998
1	d,c,n	0700	0900	0710	0718	8	8.00	1/19/1998	1/19/1998
10	d,c,n	0730	0930	0825	0845	20	2.00	1/19/1998	1/19/1998
6	d,c,n	1400	1600	1416	1436	20	3.33	1/19/1998	1/19/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL TIME	START TIME	COMPL TIME	MINS	LOOP	DATE	DATE
4	d,c,n	1000	1200	1003	1033	30	7.50	1/19/1998	1/19/1998
10	d,c,n	1800	2000	1824	1859	35	3.50	1/19/1998	1/19/1998
1	d,c,n	1400	1600	1416	1436	20	20.00	1/19/1998	1/19/1998
2	d,c,n	1005	1205	1003	1033	30	15.00	1/19/1998	1/19/1998
1	d,c,n	0735	0935	0846	0919	33	33.00	1/19/1998	1/19/1998
5	d,c,n	1300	1415	1407	1420	13	2.6	1/19/1998	1/19/1998
2	d,c,n	0900	0930	0904	0905	1	0.50	1/19/1998	1/19/1998
2	d,c,n	0900	0930	1402	1409	7	3.50	1/20/1998	1/20/1998
2	d,c,n	0800	0830	0804	0813	9	4.50	1/20/1998	1/20/1998
1	d,c,n	1400	1415	1334	1340	6	6.00	1/20/1998	1/20/1998
4	d,c,n	1300	1400	1301	1314	13	3.25	1/21/1998	1/21/1998
2	d,c,n	1600	na	1559	1601	2	1.00	1/19/1998	1/19/1998
4	d,c,n	0800	na	0808	0814	6	1.50	1/19/1998	1/19/1998
1	d,c,n	0900	na	0910	0923	13	13.00	1/19/1998	1/19/1998
1	d,c,n	0900	na	0910	0923	13	13.00	1/19/1998	1/19/1998
2	d,c,n	0900	na	0910	0923	13	6.50	1/19/1998	1/19/1998
4	d,c,n	1100	na	1109	1112	3	0.75	1/20/1998	1/20/1998
2	d,c,n	1100	na	1114	1125	11	5.50	1/20/1998	1/20/1998
2	d,c,n	0700	na	0728	0733	5	2.50	1/20/1998	1/20/1998
3	d,c,n	1700	na	1658	1705	7	2.33	1/21/1998	1/21/1998
1	d,c,n	1700	na	1658	1705	7	7.00	1/21/1998	1/21/1998
3	d,c,n	0900	na	0916	0920	4	1.33	1/21/1998	1/21/1998
6	d,c,n	1600	na	1613	1617	4	0.67	1/22/1998	1/22/1998
3	d,c,n	0700	na	0703	0711	8	2.67	1/23/1998	1/23/1998
9	c	na	na	1825	1859	34	3.78	1/15/1998	1/19/1998
6	c	na	na	1939	1950	11	1.83	1/20/1998	1/19/1998
13	c	na	na	1913	1931	18	1.38	1/19/1998	1/19/1998
6	c	na	na	1939	1950	11	1.83	1/20/1998	1/19/1998
11	c	1800	2330	1954	2016	22	2.00	1/20/1998	1/19/1998
13	c	na	na	1913	1931	18	1.38	1/19/1998	1/19/1998
11	c	1800	2330	1954	2016	22	2.00	1/20/1998	1/19/1998
2	c	na	na	2035	2039	4	2.00	1/22/1998	1/20/1998
3	c	1800	1930	1853	1857	4	1.33	1/20/1998	1/20/1998
1	c	na	na	1821	1825	4	4.00	1/20/1998	1/20/1998
3	c	1800	1930	1853	1857	4	1.33	1/20/1998	1/20/1998
1	c	na	na	1846	1849	3	3.00	1/20/1998	1/20/1998
8	c	na	na	1900	1918	18	2.25	1/20/1998	1/20/1998
13	c	na	na	2042	2102	20	1.54	1/26/1998	1/20/1998
1	c	na	na	1821	1825	4	4.00	1/20/1998	1/20/1998
2	c	na	na	1838	1841	3	1.50	1/20/1998	1/20/1998
13	c	na	na	1935	1959	24	1.85	1/20/1998	1/20/1998
1	c	na	na	1833	1835	2	2.00	1/20/1998	1/20/1998
13	c	na	na	1935	1959	24	1.85	1/20/1998	1/20/1998
1	c	na	na	1833	1835	2	2.00	1/20/1998	1/20/1998
13	c	na	na	2042	2102	20	1.54	1/26/1998	1/20/1998
9	c	na	na	1826	1859	34	3.78	1/15/1998	1/20/1998
1	c	na	na	1846	1849	3	3.00	1/20/1998	1/20/1998

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QUANTITY LOOPS	TYPE ORDER	SCHEDULED START TIME	SCHEDULED COMPL. TIME	ACTUAL START TIME	ACTUAL COMPL. TIME	TOTAL MINS	MINS PER LOOP	DUEDATE	COMPL. DATE
2	c	na	na	2035	2039	4	2.00	1/22/1998	1/20/1998
8	c	na	na	1900	1918	18	2.25	1/20/1998	1/20/1998
2	c	na	na	1838	1841	3	1.50	1/20/1998	1/20/1998
11	c	na	na	1917	1939	22	2.00	1/26/1998	1/22/1998
3	c	1800	1930	1829	1908	39	13.00	1/22/1998	1/22/1998
12	c	1800	1930	1829	1908	39	3.25	1/23/1998	1/22/1998
3	c	na	na	1809	1826	17	5.67	1/22/1998	1/22/1998
13	c	1800	1930	1829	1908	39	3.00	1/23/1998	1/22/1998
11	c	na	na	1917	1939	22	2.00	1/26/1998	1/22/1998
13	c	na	na	2001	2032	31	2.38	1/26/1998	1/23/1998
13	c	na	na	2001	2032	31	2.38	1/26/1998	1/23/1998
6	c	na	na	1830	1848	18	3.00	1/20/1998	1/23/1998
6	c	na	na	1830	1848	18	3.00	1/20/1998	1/23/1998
12	c	na	na	1809	1826	17	1.42	1/22/1998	1/23/1998
9	c	na	na	1823	1836	13	1.44	1/20/1998	1/23/1998
12	c	na	na	1937	1955	18	1.50	1/23/1998	1/23/1998
12	c	na	na	1937	1955	18	1.50	1/23/1998	1/23/1998
12	c	na	na	1839	1922	43	3.58	1/21/1998	1/23/1998
9	c	na	na	1823	1836	13	1.44	1/20/1998	1/23/1998
12	c	na	na	1839	1922	43	3.58	1/21/1998	1/23/1998
3	d,c,n	1800	na	1848	1922	34	11.33	1/20/1998	1/20/1998
1	d,c,n	1800	na	1849	1921	32	32.00	1/20/1998	1/20/1998
1	d,c,n	0700	0900	0704	0713	9	9.00	1/19/1998	1/19/1998
1	d,c,n	0700	0900	0704	0713	9	9.00	1/19/1998	1/19/1998
10	d,c,n	0730	0930	0825	0845	20	2.00	1/19/1998	1/19/1998
6	d,c,n	1400	1600	1416	1421	5	0.83	1/19/1998	1/19/1998
4	d,c,n	1000	1200	1003	1023	20	5.00	1/19/1998	1/19/1998
10	d,c,n	1800	2000	1824	1859	35	3.50	1/19/1998	1/19/1998
1	d,c,n	1400	1600	1416	1422	6	6.00	1/19/1998	1/19/1998
2	d,c,n	1005	1205	1003	1024	21	10.50	1/19/1998	1/19/1998
1	d,c,n	0735	0935	0846	0846	0	0.00	1/19/1998	1/19/1998
9	d,c,n	1000	1200	1014	1023	9	1.00	1/20/1998	1/20/1998
11	d,c,n	0830	1030	0853	0941	48	4.36	1/20/1998	1/20/1998
5	d,c,n	1700	1900	1707	1747	40	8.00	1/20/1998	1/20/1998
7	c	0800	1000	0845	0912	27	3.86	1/20/1998	1/20/1998
4	d,c,n	0900	1100	0916	0922	6	1.50	1/20/1998	1/20/1998
2	d,c,n	1400	1600	1408	1411	3	1.50	1/20/1998	1/20/1998
9	d,c,n	0630	0830	0647	0658	11	1.22	1/21/1998	1/21/1998
1	d,c,n	1700	1900	1708	1826	78	78.00	1/21/1998	1/21/1998
6	d,c,n	1700	1900	1728	1741	13	2.17	1/21/1998	1/21/1998
1	d,c	1700	1900	1708	1714	6	6.00	1/21/1998	1/21/1998
9	d,c,n	1300	1500	1313	1345	32	3.56	1/21/1998	1/21/1998
2	d,c	1700	1900	1708	1713	5	2.50	1/21/1998	1/21/1998
10	d,c,n	1700	1900	1710	1725	15	1.50	1/21/1998	1/21/1998
1	d,c,n	0630	0830	0735	0736	1	1.00	1/21/1998	1/21/1998
1	d,c,n	1700	1900	1710	1724	14	14.00	1/21/1998	1/21/1998
1	d,c,n	0800	1000	0802	0804	2	2.00	1/21/1998	1/21/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL. TIME	START TIME	COMPL. TIME	MINS	LOOP	DATE	DATE
5	d,c,n	1330	1530	1341	1346	5	1.00	1/21/1998	1/21/1998
5	d,c,n	1330	1530	1341	1346	5	1.00	1/21/1998	1/21/1998
8	d,c,n	0800	1000	0814	0824	10	1.25	1/22/1998	1/22/1998
1	d,c,n	0800	1000	0814	0820	6	6.00	1/22/1998	1/22/1998
1	d,c,n	0430	0630	0539	0545	6	6.00	1/22/1998	1/22/1998
2	d,c,n	0430	0630	0530	0537	7	3.50	1/22/1998	1/22/1998
1	d,c,n	0800	1000	0814	0825	11	11.00	1/22/1998	1/22/1998
2	d,c,n	0430	0630	0529	0537	8	4.00	1/22/1998	1/22/1998
4	d,c,n	1000	1200	1016	1022	6	1.50	1/22/1998	1/22/1998
1	d,c,n	0430	0630	0539	0545	6	6.00	1/22/1998	1/22/1998
1	d,c,n	1000	1200	1017	1020	3	3.00	1/22/1998	1/22/1998
20	d,c,n	0430	0630	0452	0525	33	1.65	1/22/1998	1/22/1998
1	d,c,n	1400	1600	1404	1405	1	1.00	1/22/1998	1/22/1998
1	d,c,n	0430	0630	0538	0546	8	8.00	1/22/1998	1/22/1998
1	d,c,n	0430	0630	0539	0545	6	6.00	1/22/1998	1/22/1998
1	d,c,n	0430	0630	0530	0537	7	7.00	1/22/1998	1/22/1998
1	d,c,n	1700	1900	1715	1726	11	11.00	1/23/1998	1/23/1998
4	d,c,n	1600	1800	1558	1604	6	1.50	1/23/1998	1/23/1998
11	d,c,n	0700	0900	0713	0728	15	1.36	1/23/1998	1/23/1998
1	d,c,n	1600	1800	1539	1548	9	9.00	1/23/1998	1/23/1998
5	d,c,n	1700	1900	1715	1727	12	2.40	1/23/1998	1/23/1998
1	d,c,n	1830	2030	1836	1850	14	14.00	1/23/1998	1/23/1998
1	d,c,n	1600	1800	1539	1549	10	10.00	1/23/1998	1/23/1998
10	d,c,n	0800	1000	0820	0827	7	0.70	1/23/1998	1/23/1998
17	d,c,n	1400	1600	1406	1502	56	3.29	1/23/1998	1/23/1998
4	d,c,n	0800	1000	0808	0823	15	3.75	1/23/1998	1/23/1998
1	d,c,n	0600	0615	0610	0615	5	5	1/27/1998	1/27/1998
1	d,c,n	1100	1115	0826	0828	2	2.00	1/27/1998	1/27/1998
7	d,c,n	0600	0745	0617	0626	9	1.29	1/27/1998	1/27/1998
7	d,c,n	0800	0945	0806	0813	7	1.00	1/27/1998	1/27/1998
1	d,c,n	0600	0615	0610	0616	6	6.00	1/27/1998	1/27/1998
8	d,c,n	0800	1000	0816	0834	18	2.25	1/28/1998	1/28/1998
3	d,c,n	0800	0845	0937	0939	2	0.67	1/28/1998	1/28/1998
4	d,c,n	0730	0830	0730	0734	4	1.00	1/29/1998	1/29/1998
2	d,c,n	0800	0830	0754	0801	7	3.50	1/30/1998	1/30/1998
11	d,c,n	1700	na	1649	1702	13	1.18	1/27/1998	1/27/1998
2	d,c,n	1700	na	1746	1750	4	2.00	1/27/1998	1/27/1998
3	d,c,n	0800	na	0810	0814	4	1.33	1/28/1998	1/28/1998
1	d,c,n	0800	na	0818	0820	2	2.00	1/28/1998	1/28/1998
6	d,c,n	1400	na	1400	1421	21	3.50	1/30/1998	1/30/1998
6	c	1800	2100	1805	1816	11	1.83	1/22/1998	1/26/1998
10	c	1800	2300	1823	1912	49	4.90	1/21/1998	1/26/1998
10	c	na	na	1827	1842	15	1.50	1/27/1998	1/27/1998
7	c	na	na	1816	1839	23	3.29	1/30/1998	1/28/1998
6	c	na	na	1823	1838	15	2.50	2/2/1998	1/28/1998
7	c	na	na	1848	1926	38	5.43	1/30/1998	1/28/1998
8	c	na	na	1848	1927	39	4.88	1/30/1998	1/28/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MIN/HOUR	DUE	COMPL.
LOOPS	ORDER	START TIME	COMPL. TIME	START TIME	COMPL. TIME	MINS	LOOP	DATE	DATE
6	c	na	na	1855	1927	32	5.33	2/2/1998	1/28/1998
1	c	na	na	1932	1942	10	10.00	1/30/1998	1/28/1998
7	c	na	na	1900	1931	31	4.43	2/2/1998	1/29/1998
7	c	na	na	1900	1910	10	1.43	2/3/1998	1/29/1998
8	c	na	na	1828	1857	29	3.63	2/3/1998	1/29/1998
10	c	na	na	1811	1830	19	1.90	2/3/1998	1/29/1998
4	c	na	na	1915	1949	34	8.50	2/2/1998	1/29/1998
7	c	na	na	1825	1907	42	6.00	2/3/1998	1/29/1998
7	c	na	na	1813	1842	29	4.14	2/2/1998	1/30/1998
10	c	na	na	1813	1842	29	2.90	2/3/1998	1/30/1998
7	c	na	na	1844	1905	21	3.00	2/2/1998	1/30/1998
9	c	na	na	1905	1905	0	0.00	2/3/1998	1/30/1998
2	c	na	na	1908	1924	16	8.00	2/3/1998	1/30/1998
11	d,c,n	1700	1900	1712	1735	23	2.09	1/26/1998	1/26/1998
1	d,c,n	0900	1100	0911	0911	0	0.00	1/29/1998	1/26/1998
1	d,c,n	1700	1900	1712	1735	23	23.00	1/26/1998	1/26/1998
5	d,c,n	0700	0900	0718	0728	10	2.00	1/26/1998	1/26/1998
1	d,c,n	0700	0900	0717	0728	11	11.00	1/26/1998	1/26/1998
5	d,c,n	0800	1000	0824	0829	5	1.00	1/27/1998	1/27/1998
9	d,c,n	1700	1900	1706	1714	8	0.89	1/27/1998	1/27/1998
5	d,c,n	1700	1900	1714	1723	9	1.80	1/27/1998	1/27/1998
1	d,c,n	0800	1000	0918	0919	1	1.00	1/27/1998	1/27/1998
3	d,c,n	1600	1800	1605	1614	9	3.00	1/27/1998	1/27/1998
1	d,c,n	0800	1000	0909	0910	1	1.00	1/27/1998	1/27/1998
3	r	1700	na	1752	1915	83	27.67	1/28/1998	1/28/1998
7	d,c,n	1730	1930	1735	1744	9	1.29	1/28/1998	1/28/1998
2	d,c,n	0900	1100	0905	0906	1	0.50	1/28/1998	1/28/1998
5	d,c,n	1530	1730	1531	1535	4	0.80	1/28/1998	1/28/1998
10	d,c,n	1700	1900	1714	1724	10	1.00	1/28/1998	1/28/1998
6	d,c,n	1400	1600	1406	1411	5	0.83	1/28/1998	1/28/1998
2	d,c,n	0800	1000	0837	0841	4	2.00	1/28/1998	1/28/1998
4	r	1700	na	1752	1916	84	21.00	1/28/1998	1/28/1998
1	d,c,n	1730	1930	1735	1744	9	9.00	1/28/1998	1/28/1998
8	d,c,n	1500	1700	1504	1511	7	0.88	1/28/1998	1/28/1998
1	d,c,n	1500	1700	1504	1510	6	6.00	1/28/1998	1/28/1998
6	d,c,n	1000	1200	1003	1021	18	3.00	1/28/1998	1/28/1998
1	d,c,n	0700	0900	0708	0709	1	1.00	1/20/1998	1/28/1998
10	d,c,n	1600	1800	1612	1629	17	1.70	1/28/1998	1/28/1998
1	d,c,n	0800	1000	0816	0817	1	1.00	1/28/1998	1/28/1998
1	d,c,n	1100	1300	1104	1106	2	2.00	1/29/1998	1/29/1998
1	d,c,n	1700	1900	1713	1717	4	4.00	1/29/1998	1/29/1998
1	d,c,n	1700	1900	1714	1717	3	3.00	1/29/1998	1/29/1998
7	d,c,n	1800	2000	1804	1815	11	1.57	1/29/1998	1/29/1998
1	d,c,n	1700	1900	1713	1717	4	4.00	1/29/1998	1/29/1998
2	d,c	1700	1900	1727	1730	3	1.50	1/29/1998	1/29/1998
25	d,c,n	1630	1830	1721	1757	36	1.44	1/29/1998	1/29/1998
8	d,c,n	1630	1830	1648	1656	8	1.00	1/29/1998	1/29/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL. TIME	START TIME	COMPL. TIME	MINS	LOOP	DATE	DATE
5	d,c,n	1630	1830	1711	1721	10	2.00	1/29/1998	1/29/1998
3	d,c,n	1700	1900	1731	1740	9	3.00	1/29/1998	1/29/1998
1	d,c,n	1630	1830	1709	1711	2	2.00	1/29/1998	1/29/1998
8	d,c,n	1700	1900	1800	1821	21	2.63	1/29/1998	1/29/1998
5	d,c,n	1700	1900	1756	1806	50	10.00	1/28/1998	1/29/1998
1	d,c,n	0930	1130	0942	0943	1	1.00	1/30/1998	1/30/1998
1	d,c,n	0900	1100	0914	0939	25	25.00	1/30/1998	1/30/1998
1	d,c,n	0900	1100	0914	0939	25	25.00	1/30/1998	1/30/1998
1	d,c,n	0700	0900	0728	0734	6	6.00	1/30/1998	1/30/1998
3	d,c,n	0700	0900	0728	0734	6	2.00	1/30/1998	1/30/1998
4	d,c,n	1000	1200	1029	1044	15	3.75	1/30/1998	1/30/1998
1	d,c,n	0900	1100	0914	0939	25	25.00	1/30/1998	1/30/1998
4	d,c,n	0815	1015	0824	0830	6	1.50	1/30/1998	1/30/1998
3	d,c,n	0900	1100	0914	0939	25	8.33	1/30/1998	1/30/1998
1605						7005			

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL TIME	START TIME	COMPL TIME	MINS	LOOP	DATE	DATE
2	d,c,n	1000	1030	1025	1031	6	3	2/3/1998	2/3/1998
6	d,c,n	1300	1430	1440	1639	119	19.83	2/4/1998	2/4/1998
1	d,c,n	1700	na	1647	1649	2	2.00	2/2/1998	2/2/1998
6	d,c,n	1700	na	1653	1705	12	2.00	2/2/1998	2/2/1998
2	d,c,n	0700	na	0655	0656	1	0.50	1/30/1998	2/2/1998
3	d,c,n	1500	na	1451	1456	5	1.67	2/3/1998	2/3/1998
6	d,c,n	0900	na	0907	0912	5	0.83	2/4/1998	2/4/1998
9	d,c,n	0700	1130	1234	1249	15	1.67	2/2/1998	2/2/1998
4	d,c,n	0700	0900	1254	1301	7	1.75	2/2/1998	2/2/1998
11	d,c,n	0700	1230	1254	1345	51	4.64	2/2/1998	2/2/1998
10	d,c,n	0700	1200	1134	1209	35	3.50	2/2/1998	2/2/1998
2	c	na	na	1913	1924	11	5.50	2/3/1998	2/3/1998
2	c	na	na	1913	1924	11	5.50	2/3/1998	2/3/1998
4	c	na	na	1812	1820	8	2.00	2/3/1998	2/4/1998
1	d,c,n	1300	1500	1305	1310	5	5.00	2/2/1998	2/2/1998
4	d,c,n	1600	1800	1610	1616	6	1.50	2/2/1998	2/2/1998
12	d,c,n	1730	1930	1604	1623	19	1.58	2/3/1998	2/3/1998
4	d,c,n	0700	0900	0704	0711	7	1.75	2/3/1998	2/3/1998
1	d,c,n	1100	1300	1108	1114	6	6.00	2/3/1998	2/3/1998
3	d,c,n	0900	1100	0907	0909	2	0.67	2/3/1998	2/3/1998
6	d,c,n	1100	1300	1108	1114	6	1.00	2/3/1998	2/3/1998
4	d,c	1100	1300	1105	1113	8	2.00	2/3/1998	2/3/1998
3	d,c,n	1300	1500	1305	1310	5	1.67	2/4/1998	2/4/1998
1	d,c,n	1500	1700	1514	1534	20	20.00	2/4/1998	2/4/1998
9	d,c,n	1600	1800	1611	1628	17	1.89	2/4/1998	2/4/1998
4	d,c,n	1500	1700	1507	1512	5	1.25	2/4/1998	2/4/1998
3	d,c,n	1500	1700	1510	1513	3	1.00	2/4/1998	2/4/1998
3	d,c,n	0730	0930	0757	0803	6	2.00	2/4/1998	2/4/1998
1	d,c	1500	1700	1514	1534	20	20.00	2/4/1998	2/4/1998
1	d,c,n	1800	2000	1802	1824	22	22.00	2/4/1998	2/4/1998
7	d,c,n	1800	2000	1802	1824	22	3.14	2/4/1998	2/4/1998
1	c	1500	1700	1514	1534	20	20.00	2/4/1998	2/4/1998
1	d,c,n	1500	1700	1514	1534	20	20.00	2/4/1998	2/4/1998
3	d,c,n	0830	0915	0837	0855	18	6.00	2/9/1998	2/9/1998
1	d,c,n	0800	0815	0802	0807	5	5.00	2/11/1998	2/11/1998
1	d,c,n	0830	0845	0810	0814	4	4.00	2/11/1998	2/11/1998
2	d,c	1500	na	1457	1500	3	1.50	2/10/1998	2/10/1998
3	d,c,n	1700	na	1707	1709	2	0.67	2/10/1998	2/10/1998
2	d,c,n	1300	na	1317	1320	3	1.50	2/10/1998	2/10/1998
2	d,c,n	1300	na	1258	1300	2	1.00	2/11/1998	2/11/1998
2	d,c,n	1500	na	1304	1306	2	1.00	2/11/1998	2/11/1998
5	d,c,n	0815	na	0827	0909	42	8.40	2/11/1998	2/11/1998
1	d,c,n	0815	na	0827	0909	42	42.00	2/11/1998	2/11/1998
1	c	na	na	1653	1657	4	4.00	2/10/1998	2/9/1998
1	c	na	na	1653	1657	4	4.00	2/10/1998	2/9/1998
3	d,c,n	1500	na	1504	1509	5	1.67	2/11/1998	2/11/1998
3	d,c,n	0800	1000	1006	1010	4	1.33	2/9/1998	2/9/1998
4	c	1600	1800	1602	1614	12	3.00	2/9/1998	2/9/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MINS PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL TIME	START TIME	COMPL TIME	MINS	LOOP	DATE	DATE
1	d,c,n	1700	1900	1706	1711	5	5.00	2/9/1998	2/9/1998
2	d,c,n	?	?	1109	1110	1	0.50	2/9/1998	2/9/1998
1	d,c,n	1700	1900	1706	1711	5	5.00	2/9/1998	2/9/1998
10	d,c,n	1700	1900	1753	1826	33	3.30	2/9/1998	2/9/1998
1	d,c,n	1700	1900	1753	1826	33	33.00	2/9/1998	2/9/1998
7	d,c,n	1800	2000	1813	1829	16	2.29	2/10/1998	2/10/1998
4	d,c,n	1700	1900	1701	1705	4	1.00	2/10/1998	2/10/1998
17	d,c,n	1800	2000	1830	1911	41	2.41	2/10/1998	2/10/1998
3	d,c,n	1600	1800	1605	1632	27	9.00	2/10/1998	2/10/1998
5	d,c,n	1600	1800	1552	1555	3	0.60	2/10/1998	2/10/1998
4	d,c,n	0800	1000	0812	0819	7	1.75	2/11/1998	2/11/1998
1	d,c	1200	1400	1204	1207	3	3.00	2/11/1998	2/11/1998
3	d,c,n	0900	1100	0858	0908	10	3.33	2/11/1998	2/11/1998
1	d,c,n	0900	1100	0936	0940	4	4.00	2/11/1998	2/11/1998
9	d,c,n	1700	1900	1808	1818	10	1.11	2/11/1998	2/11/1998
5	d,c,n	1700	1900	1711	1716	5	1.00	2/11/1998	2/11/1998
1	d,c,n	0730	0930	1658	1702	4	4.00	2/11/1998	2/11/1998
7	d,c,n	0900	1100	0905	0925	20	2.86	2/12/1998	2/11/1998
3	d,c,n	1800	2000	1820	1823	3	1.00	2/11/1998	2/11/1998
1	d,c,n	1800	2000	1824	1828	4	4.00	2/11/1998	2/11/1998
4	d,c,n	1700	1900	1658	1710	12	3.00	2/11/1998	2/11/1998
1	d,c,n	1800	2000	1824	1828	4	4.00	2/11/1998	2/11/1998
4	d,c,n	1400	1600	1427	1438	11	2.75	2/11/1998	2/11/1998
13	d,c,n	1700	1900	1707	1730	23	1.77	2/11/1998	2/11/1998
1	d,c,n	1000	1015	1005	1011	6	6.00	2/17/1998	2/17/1998
2	d,c,n	900	930	900	929	29	14.50	2/17/1998	2/17/1998
3	d,c,n	1400	1415	1404	1410	6	2.00	2/19/1998	2/19/1998
3	d,c,n	1300	1345	1315	1327	12	4.00	2/19/1998	2/19/1998
1	d,c,n	1300	1315	1315	1328	13	13.00	2/19/1998	2/19/1998
2	d,c,n	600	630	602	616	14	7.00	2/20/1998	2/20/1998
2	d,c,n	1200	1230	1203	1209	6	3.00	2/20/1998	2/20/1998
4	d,c,n	1500	na	1525	1530	5	1.25	2/16/1998	2/16/1998
4	d,c,n	1500	na	1616	1619	3	0.75	2/16/1998	2/16/1998
1	d,c,n	1700	na	1706	1711	5	5.00	2/16/1998	2/16/1998
2	d,c,n	1700	na	1706	1711	5	2.50	2/16/1998	2/16/1998
7	d,c,n	1700	na	1706	1711	5	0.71	2/16/1998	2/16/1998
2	d,c,n	1600	na	1603	1603	0	0.00	2/16/1998	2/16/1998
7	d,c,n	1500	na	1443	1448	5	0.71	2/17/1998	2/17/1998
3	d,c,n	1600	na	1636	1642	6	2.00	2/17/1998	2/17/1998
3	d,c,n	800	na	805	826	21	7.00	2/17/1998	2/17/1998
1	d,c,n	800	na	805	826	21	21.00	2/17/1998	2/17/1998
3	d,c,n	1500	na	1513	1517	4	1.33	2/18/1998	2/18/1998
5	d,c,n	900	na	851	858	7	1.40	2/18/1998	2/18/1998
5	d,c,n	1600	na	1546	1558	12	2.40	2/18/1998	2/18/1998
2	d,c,n	700	na	705	708	3	1.50	2/18/1998	2/18/1998
1	d,c,n	700	na	715	719	4	4.00	2/18/1998	2/18/1998
4	d,c,n	700	na	903	912	9	2.25	2/19/1998	2/19/1998
3	d,c,n	1500	na	1503	1519	16	5.33	2/19/1998	2/19/1998

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QUANTITY	TYPE	SCHEDULED	SCHEDULED	ACTUAL	ACTUAL	TOTAL	MIN/S PER	DUEDATE	COMPLDATE
LOOPS	ORDER	START TIME	COMPL. TIME	START TIME	COMPL. TIME	MINs	LOOP	DATE	DATE
4	d,c,n	1700	na	1642	1647	5	1.25	2/20/1998	2/20/1998
1	d,c,n	800	na	820	844	24	24.00	2/20/1998	2/20/1998
3	d,c,n	1730	1900	1838	1840	2	0.67	2/16/1998	2/16/1998
8	d,c,n	1730	2130	1843	1846	3	0.38	2/16/1998	2/16/1998
4	d,c,n	1730	1930	1747	1836	49	12.25	2/16/1998	2/16/1998
2	d,c,n	1730	1830	1733	1736	3	1.50	2/23/1998	2/20/1998
3	d,c,n	1800	na	1800	1810	10	3.33	2/19/1998	2/19/1998
3	d,c,n	1300	1500	1303	1306	3	1.00	2/16/1998	2/16/1998
9	d,c,n	700	900	700	738	38	4.22	2/16/1998	2/16/1998
1	d,c,n	1700	1900	1737	1737	0	0.00	2/16/1998	2/16/1998
2	d,c,n	1630	1830	1633	1702	29	14.50	2/16/1998	2/16/1998
4	d,c,n	1300	1500	1308	1328	20	5.00	2/16/1998	2/16/1998
2	d,c,n	800	1000	903	1005	62	31.00	2/16/1998	2/16/1998
1	d,c,n	1500	1700	1501	1505	4	4.00	2/16/1998	2/16/1998
1	d,c,n	700	900	723	727	4	4.00	2/16/1998	2/16/1998
1	d,c,n	1630	1830	1633	1703	30	30.00	2/16/1998	2/16/1998
1	d,c,n	800	1000	804	807	3	3.00	2/16/1998	2/16/1998
4	d,c,n	1630	1830	1633	1702	29	7.25	2/16/1998	2/16/1998
7	d,c,n	700	900	705	732	27	3.86	2/16/1998	2/16/1998
1	d,c,n	900	1100	913	916	3	3.00	2/16/1998	2/16/1998
8	d,c,n	1700	1900	1708	1719	11	1.38	2/16/1998	2/16/1998
3	d,c,n	800	1000	805	828	23	7.67	2/16/1998	2/16/1998
3	d,c,n	1630	1830	1652	1700	8	2.67	2/16/1998	2/16/1998
12	d,c,n	1600	1800	1617	1634	17	1.42	2/16/1998	2/16/1998
5	d,c,n	1400	1600	1412	1419	7	1.40	2/16/1998	2/16/1998
8	d,c,n	1700	1900	1711	1726	15	1.88	2/16/1998	2/16/1998
2	d,c,n	900	1100	914	916	2	1.00	2/16/1998	2/16/1998
1	d,c,n	1500	1700	1526	1528	2	2.00	2/17/1998	2/17/1998
7	d,c,n	700	900	727	735	8	1.14	2/17/1998	2/17/1998
1	d,c,n	1600	1800	1618	1621	3	3.00	2/17/1998	2/17/1998
6	d,c,n	730	930	734	747	13	2.17	2/17/1998	2/17/1998
1	d,c,n	1600	1800	1610	1619	9	9.00	2/17/1998	2/17/1998
5	d,c,n	1700	1900	1713	1718	5	1.00	2/17/1998	2/17/1998
1	d,c,n	1400	1600	1401	1403	2	2.00	2/17/1998	2/17/1998
1	d,c,n	1100	1300	1101	1102	1	1.00	2/17/1998	2/17/1998
6	d,c,n	900	1100	908	1102	114	19.00	2/17/1998	2/17/1998
2	d,c,n	1400	1600	1400	1403	3	1.50	2/17/1998	2/17/1998
1	d,c,n	1500	1700	1505	1510	5	5.00	2/17/1998	2/17/1998
3	d,c,n	1100	1300	1114	1312	118	39.33	2/17/1998	2/17/1998
6	d,c,n	730	930	731	803	32	5.33	2/17/1998	2/17/1998
4	d,c,n	1130	1330	1140	1309	89	22.25	2/17/1998	2/17/1998
3	d,c,n	1700	1900	1712	1734	22	7.33	2/18/1998	2/18/1998
7	d,c,n	1200	1400	1203	1212	9	1.29	2/18/1998	2/18/1998
7	d,c,n	900	1100	911	919	8	1.14	2/18/1998	2/18/1998
3	d,c,n	1000	1200	1011	1022	11	3.67	2/18/1998	2/18/1998
2	d,c,n	1000	1200	1021	1026	5	2.50	2/18/1998	2/18/1998
2	d,c	600	800	619	638	19	9.50	2/18/1998	2/18/1998
18	d,c,n	1700	1900	1711	1734	23	1.28	2/18/1998	2/18/1998